KIM L. GREENWOOD

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BACKGROUND SUMMARY

Engineer with unique blend of technical and communication skills. Proven ability in project management, customer service, and training. Highly skilled at communicating collected data from various environmental and industrial sources to technical and non-technical recipients. Creative, self directed, quick-thinker that enthusiastically contributes to a team environment.

EXPERIENCE

State of Vermont, Dept. of Environmental Conservation, Water Quality Division, Waterbury, VT **1999 to present**

Water Quality Engineer. Develop, implement and administer the NPDES Stormwater Runoff from Construction Sites program. Perform technical review of projects for several criteria including water quality and soil erosion. Provide technical recommendations for erosion control and riparian buffer protection to District Environmental Commissions for permit conditions. Issue 401 Water Quality Certifications related to stream and stream buffer protection, compliance with Vermont Water Quality Standards, and erosion control. Provide technical erosion control assistance to many entities.

- Key player in creating the new Streambank and Lakeshore Vegetation Management Procedure.
- Create and perform erosion prevention training for contractors, municipal officials, and others.
- Perform compliance and enforcement visits for erosion and sediment control.
- Draft Vermont's Erosion Control Manual - primary guidance document for construction sites

Husky Injection Molding Systems, Inc., Milton, VT **1998 to 1999**

Application Engineer, Sales. Coordinated technical specifications from customer through design and communicated these to engineering. Reviewed Hot Runner applications. Oversaw all aspects of the Hot Runner design and provided troubleshooting for this process. Intensive problem solving and technical troubleshooting involving coordination of customer, engineering, sales team, and service team.

- Performed technical training of non-technical internal employees.
- Responsible for process improvement and implementation of customer standards of a start-up business.
- Coordinated emergency engineering meetings and visits involving customers and their standards.

Project Engineer, Sales. Managed all stages of multiple projects totaling $2-3 million worth of sales from quotation through engineering to final shipment and field support thereafter. Technical liaison between customer, engineering, service, and sales force.

- Creatively problem-solved engineering and manufacturing issues to ensure customer, project, and production schedules were met.
- Engaged in community outreach to educate the general public of this new business

IBM Corporation, Essex, VT **Summer 1997**

Process Engineer Intern. Hired to a critique a specific manufacturing process. While rapidly learning foreign processes and systems, performed a detailed critique involving observation, interviews, and independently coordinating the expertise of many different areas of manufacturing (Process Engineers, Toolset Operators, Managers, Statisticians, etc.). Developed a detailed report to effectively document existing problems and suggested improvements.

- Identified process to increase throughput and efficiency of the process which were subsequently implemented
- "Set a new standard" for interns, offered full time position as a result of internship

Scitest Laboratories, Inc., Randolph, VT **1990-1993, 1994-1997**

Environmental Analyst/Laboratory Technician analyzed various inorganic matrices such as wastewater, drinking water, leachate, soil, and sludge for parameters including Mercury, Sulfate, Total Phosphorus, Dissolved Solids, Biochemical Oxygen Demand (BOD5), Fecal coliform, E. coli, and others. Performed MPN and FMT total and fecal coliform testing, solid and liquid PCB extractions, Mercury and metal digestions, media preparation, sample bottle preparation. Developed both chronic and acute Whole Effluent Toxicity (WET) testing using Fathead minnows (*P. promelas*) and Daphnia (*C. dubia*). Performed digestions on soil, sludge, and water and extractions on soil samples. Coordinated and executed field work in various ecosystems.

- Designed, constructed, and implemented biomonitoring project on the Passumpsic River, creating an established procedure for biomonitoring.
- Contributed to ongoing method development of WET testing process resulting in a documented procedure.
- Assisted in development of sediment toxicity testing using *Chironomid tentans* resulting in culture of organisms and preliminary sediment toxicity testing.

Client Services Representative. Hired to develop a parallel processing system to replace sequential processing system to streamline results reporting. Subsequently directed sample receiving, sample login, sample logistics, and fieldwork scheduling and logistics. Provided technical and general public consultation regarding analysis, analytical results, and testing needs. Coordinated sample collection, analysis, and reporting for United States Post Office Drinking Water Project at locations across Vermont and Massachusetts. Directed project support functions including development of reporting formats and coordination of results reporting.

- Assisted in selection of Laboratory Information Management System resulting in a more efficient and accurate reporting method.
- Created a streamlined results reporting process resulting in a minimum 7-day improvement in results reporting.

U.S. Army Corps of Engineers Cold Regions Research and Engineering Laboratory, Remote Sensing and GIS Facility, Hanover, NH **1993**

Physical Science Technician. Hired to create a watershed computer model using STELLA to convert the mathematical HEC - 1 Flood Hydrograph Package into a Macintosh format to predict streamflow rise from a storm event. The HEC-1 Package was used to predict the Flood of the Midwest in 1993**.**

Ben and Jerry's Solar Aquatics Treatment Facility, Waterbury, VT **1991-1992**

Laboratory Technician. Collected samples of wastewater throughout simulated wetland solar aquatic system and analyzed for Chemical Oxygen Demand, Ammonia, Nitrate, Phosphorus (all using Hach tests), Total Suspended Solids, Volatile Solids, pH, and Alkalinity.

Agricultural Testing Laboratory, University of Vermont, Burlington, VT **1991**

Laboratory Assistant. Aided laboratory director by prepping leaf, forage, grass, and hay samples.

EDUCATION

Vermont Technical College, Randolph Center, VT

Associate of Engineering: Mechanical Engineering Technology. May, 1998

- GPA: 3.91 / 4.00
- Nominee for "Engineering Technician of the Year"
- Member of Tau Alpha Pi National Honor Society for Engineering Technologies
- Member of Phi Theta Kappa National Honor Society
- Awarded "Best Scholarship Essay" for exceptional writing
- Member of Society of Manufacturing Engineers (SME)

University of Vermont, Burlington, VT

Bachelor of Science, Natural Resources: Aquatic Resources. December 1993.

- Member of Xi Sigma Pi National Forestry Honor Society.